

## PROCESS FOR THE PRODUCTION OF SYNTHESIS GAS

Abstract

Process for the production of synthesis gas, by means of  
10 catalytic partial oxidation or autothermal reforming of  
light hydrocarbons, which comprises partially oxidizing the  
hydrocarbon with oxygen coming from the reduction of at  
least one metal oxide selected from hexavalent chromium ox-  
ide, supported on an inert carrier and modified with an al-  
15 kaline and/or earth-alkaline metal, and metal oxides capa-  
ble of autonomously sustaining the catalytic partial oxida-  
tion reaction by means of redox cycles.